

## Appendix A-11: Newborn (NEWB-1) Measure Rate Calculation Rules

### NEWB-1 Measure Rules Effective as of Q1- 2016 discharges

**General Rule:** Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

#### Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population,

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = NEWB-1, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	assign to Category X if field is empty (i.e., no characters)
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X
	assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date
	assign to Category X if field is empty or invalid (i.e., no date)
16 Payer Source	continue if valid value, otherwise assign to Category X
17 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
18 Sample	continue if value = Y or N, otherwise assign to Category X
19 Discharge Disposition	if value = 4, 6, assign to Category B/ assign to Category X if missing or no match
20 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X

## Appendix A-11: Newborn (NEWB-1) Measure Rate Calculation Rules

### NEWB-1 Measure Rules Effective as of Q1- 2016 discharges

Data Element Sequence # / Name	Rule
21 Term Newborn	if value = N, assign to Category B/ assign missing value to Category X
22 Admission to NICU	if value = Y, assign to Category B/ assign missing value to Category X
23 Exclusive Breast Milk Feeding	if value = N, assign to Category D / assign missing value to Category X
	if value = Y, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

## Appendix A-11: Newborn (NEWB-2) Measure Rate Calculation Rules

### NEWB-2 Measure Rules Effective as of Q1-2016 discharges

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review

#### Categories

X - Case will be rejected, not in measure population  
B - Case will be excluded, not in measure population  
D - In measure population, excluded from numerator  
E - In measure population,

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = NEWB-2, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	assign to Category X if field is empty (i.e., no characters)
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Payer Source	continue if valid value, otherwise assign to Category X
17 MassHealth Member ID	assign to Category X if field is empty or invalid(i.e., no characters)
18 Sample	continue if value = Y or N, otherwise assign to Category X
19 Discharge Disposition	if value = 4, 6, assign to Category B/ assign to Category X if missing or no match
20 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
21 Gestational Age	if value = < 35 or UTD, assign to Category B / assign missing value to Category X
22 Born in this Facility	if value = N, assign to Category B/ assign missing value to Category X
23 Admission to NICU	if value = Y, assign to Category B/ assign missing value to Category X
24 Comfort Measures Only	if value = Y, assign to Category B/ assign missing value to Category X
25 Bilirubin Screening	if value = 2, assign to Category B/ assign missing value to Category X if value = 3, assign to Category D/ if value = 1, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

## Appendix A-11: Newborn (NEWB-2) Measure Rate Calculation Rules

## Appendix 11: Maternity (MAT-3) Measure Rate Calculation Rules

### MAT-3 Measure Rules Effective as of Q1- 2016 discharges

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

#### Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = MAT-3, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	continue if value = F, otherwise assign to Category X
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X
15 Discharge Date	assign to Category X if field is empty or invalid (i.e., no date)
17 Discharge Disposition	continue if date is within submission time frame, otherwise assign to Category X/ cannot be prior to admit date
18 Payer Source	assign to Category X if field is empty or invalid (i.e., no date)
19 MassHealth Member ID	check against Discharge Disposition Code table, assign to Category X if missing or no match
20 Sample	continue if valid value, otherwise assign to Category X
21 ICD-10-CM Principal or Other Diagnosis Code	assign to Category X if field is empty or invalid (i.e., no characters)
22 Clinical Trial	continue if value = Y or N, otherwise assign to Category X
	if value = on table 11.07, assign to Category B / assign missing value to Category X
	if value = Y, assign to Category B / assign missing value to Category X

### MAT-3 Measure Rules Effective as of Q1- 2016 discharges

## Appendix 11: Maternity (MAT-3) Measure Rate Calculation Rules

Data Element Sequence # / Name	Rule
23 Gestational Age	if value = (<37 or >= 39) or UTD, assign to Category B / assign missing value to Category X
24 <u>ICD-10-CM Principal or Other Diagnosis Code</u>	if value = on table 11.06.1, assign to Category D
25 <u>ICD-10-PCS Principal or Other Procedure Code</u>	<i>if value = none on table 11.05, proceed to question 27</i>
26 <u>Labor</u>	<i>if value = Y, assign to Category D / if value = N, assign to Category E/ assign missing value to Category X</i>
27 <u>ICD-10-PCS Principal or Other Procedure Code</u>	if value = none on 11.06, assign to Category D
28 Labor	if value = Y, assign to Category D / assign missing value to Category <u>X</u>
29 Prior Uterine Surgery	if value = Y, assign to Category D / assign missing value to Category <u>X</u>
	if value = N, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

## Appendix 11: Maternity (MAT-4) Measure Rate Calculation Rules

### MAT-4 Measure Rules Effective as of Q1- 2016 discharges

**General Rule:** Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

#### Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population,

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = MAT-4, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	continue if value = F, otherwise assign to Category X
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X/ cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
17 Discharge Disposition	check against Discharge Disposition Code table, assign to Category X if missing or no match
18 Payer Source	continue if valid value, otherwise assign to Category X
19 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
20 Sample	continue if value = Y or N, otherwise assign to Category X
21 <i>ICD-10-CM Principal or Other Diagnosis Code</i>	if value = on table 11.09, assign to Category B / assign missing value to Category X
22 <i>ICD-10-CM Principal or Other Diagnosis Code</i>	if value = none on table 11.08, assign to Category B
23 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X

## Appendix 11: Maternity (MAT-4) Measure Rate Calculation Rules

### MAT-4 Measure Rules Effective as of Q1- 2016 discharges

Data Element Sequence # / Name	Rule
24 Gestational Age	if value = < 37 or UTD, assign to Category B / assign missing value to Category <u>X</u>
25 Number of Previous Live Births	if value = > 0, assign to Category B / assign missing value to Category <u>X</u> if value = UTD, assign to Category E
26 ICD-10-PCS Principal or Other Procedure Code	if value = none on table 11.06, assign to Category D if value = on table 11.06, assign to Category E

#### PER CASE DESIGNATION

Assign each case to the category designation of:

1. included in numerator, included in denominator = Category E (Numerator)
2. excluded from numerator, included in denominator = Category D; (Denominator = D + E)

#### CALCULATE THE RISK ADJUSTED MEASURE RATE =

**Refer to Section 3.E, Cesarean Section, Risk Adjustment, for the National Maternal Distribution Weight at First Delivery detailed in the Table: Direct Standardization File Information for the calculation of the risk adjusted measure rate.**

1. Within each age stratum, count the number of denominator and numerator cases found.
2. Within each age stratum, calculate the observed measure rate as the count of numerator cases divided by count of denominator cases.
3. Within each age stratum, multiply the observed measure rate by the corresponding National Maternal Distribution Weight at First Delivery, using the table provided in Section 3.E, to create the weighted cesarean section measure rates. The weighted rate should be calculated to 8 decimal points.
4. Sum up the weighted rates over all the age strata to calculate aggregate risk-adjusted rate and rounded to 6 decimal points.
5. Convert the risk adjusted rate to a percent by multiplying the risk-adjusted rate decimal by 100%.



## Appendix A-11: Maternity (MAT-5) Measure Rate Calculation Rules

### MAT-5 Measure Rules Effective as of Q1- 2016 discharges

#### Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population,

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review ends.

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = MAT-5, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	continue if value = F, otherwise assign to Category X
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Payer Source	continue if valid value, otherwise assign to Category X
17 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
18 Sample	continue if value = Y or N, otherwise assign to Category X
19 Discharge Disposition	check against Discharge Disposition Code table, assign to Category X if missing or no match
20 Clinical Trial	if value = Y, assign to Category B / assign missing value to Category X
21 DVT Prophylaxis	if value = N, assign to Category D / assign missing value to Category X if value = Y, assign to Category E

MEASURE RATE =

$$\frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

## Appendix A-11 Care Coordination (CCM-1) Measure Rate Calculation Rules

### CCM-1 Measure Rules Effective as of Q1- 2016 discharges

General Rule: Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once

#### Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

#### Data Element Sequence # / Name Rule

1	Episode of Care	continue if value = CCM, otherwise assign to Category X
2	Provider Name	assign to Category X if field is empty (i.e., no characters)
3	Provider ID	check against Provider ID table, assign to Category X if missing or no match
4	First Name	assign to Category X if field is empty (i.e., no characters)
5	Last Name	assign to Category X if field is empty (i.e., no characters)
6	Birthdate	assign to Category X if field is empty (i.e., no date)
7	Sex	assign to Category X if field is empty (i.e., no characters)
8	Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9	Race	check against Race Code table, assign to Category X if missing or no match
10	Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11	Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12	Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13	Patient ID	assign to Category X if field is empty (i.e., no characters)
14	Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15	Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16	Discharge Disposition	if value = 6, 7, assign to Category B/ assign to Category X if missing or no match
17	Payer Source	continue if valid value, otherwise assign to Category X
18	MassHealth Member ID	assign to Category X if field is empty or invalid(i.e., no characters)
19	Sample	continue if value = Y or N, otherwise assign to Category X
20	Reconciled Medication List	if value = N, assign to Category D / assign missing value to Category X if value = Y, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

## Appendix A-11 Care Coordination (CCM-2) Measure Rate Calculation Rules

### CCM-2 Measure Rules Effective as of Q1- 2016 discharges

**General Rule:** Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review

#### Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population, included in numerator

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = CCM, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	assign to Category X if field is empty (i.e., no characters)
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X /cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Discharge Disposition	if value = 6, 7, assign to Category B/ assign to Category X if missing or no match
17 Payer Source	continue if valid value, otherwise assign to Category X
18 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
19 Sample	continue if value = Y or N, otherwise assign to Category X

## Appendix A-11 Care Coordination (CCM-2) Measure Rate Calculation Rules

### CCM-2 Measure Rules Effective as of Q1- 2016 discharges

Data Element Sequence # / Name	Rule
<u>20</u> Transition Record	if value = N, assign to Category D / assign missing value to Category <u>X</u>
<u>21</u> Reason for Inpatient Admission	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>22</u> Medical Procedures & Tests	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>23</u> Discharge Diagnosis	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>24</u> Current Medication List	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>25</u> Studies Pending at Discharge	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>26</u> Patient Instructions	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>27</u> Advance Care Plan	if patient < 18, go to data element Contact Information 24/7 (Sequence #29) assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>28</u> Contact Information 24 hrs/ 7 days	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>29</u> Contact Information Studies Pending	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>30</u> Plan for Follow-Up Care	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
Primary Physician/ Health Care Professional Designated for Follow-Up	
<u>31</u> Care	assign missing value to Category <u>X</u> , if value = Y, add 1 to Transition Record Counter
<u>32</u> <i>calculated value</i>	if patient <18 and transition record counter < 10, assign to Category D if patient <18 and transition record counter = 10, assign to Category E if patient >= 18 and transition record counter < 11, assign to Category D if patient >= 18 and transition record counter = 11, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$

## Appendix A-11 Care Coordination (CCM-3) Measure Rate Calculation Rules

### CCM-3 Measure Rules Effective as of Q1- 2016 discharges

**General Rule:** Proceed sequentially as directed using data elements submitted. Each case must be assigned to a specific category (X, B, D, or E) and once assigned, review

#### Categories

- X - Case will be rejected, not in measure population
- B - Case will be excluded, not in measure population
- D - In measure population, excluded from numerator
- E - In measure population,

Data Element Sequence # / Name	Rule
1 Episode of Care	continue if value = CCM, otherwise assign to Category X
2 Provider Name	assign to Category X if field is empty (i.e., no characters)
3 Provider ID	check against Provider ID table, assign to Category X if missing or no match
4 First Name	assign to Category X if field is empty (i.e., no characters)
5 Last Name	assign to Category X if field is empty (i.e., no characters)
6 Birthdate	assign to Category X if field is empty (i.e., no date)
7 Sex	assign to Category X if field is empty (i.e., no characters)
8 Postal Code	assign to Category X if field is empty (i.e., no postal code) or invalid
9 Race	check against Race Code table, assign to Category X if missing or no match
10 Ethnicity	check against Ethnicity Code table, assign to Category X if missing or no match
11 Hispanic Indicator	continue if value = Y or N, otherwise assign to Category X
12 Hospital Bill Number	assign to Category X if field is empty (i.e., no characters)
13 Patient ID	assign to Category X if field is empty (i.e., no characters)
14 Admission Date	date cannot be after Discharge Date, if so, assign to Category X assign to Category X if field is empty or invalid (i.e., no date)
15 Discharge Date	continue if date is within submission time frame, otherwise assign to Category X / cannot be prior to admit date assign to Category X if field is empty or invalid (i.e., no date)
16 Discharge Disposition	if value = 6, 7, assign to Category B/ assign to Category X if missing or no match
17 Payer Source	continue if valid value, otherwise assign to Category X
18 MassHealth Member ID	assign to Category X if field is empty or invalid (i.e., no characters)
19 Sample	continue if value = Y or N, otherwise assign to Category X
20 Transmission Date	if value = UTD, assign to Category D / assign missing or invalid value to Category <u>X</u>
21 <i>calculated value</i>	if (Transmission Date - Discharge Date) > 2 days, assign to Category D if (Transmission Date - Discharge Date) < 0 days, assign to Category D if (Transmission Date - Discharge Date) >= 0 and <= 2 days, assign to Category E

$$\text{MEASURE RATE} = \frac{\text{Number of cases in Category E}}{\text{Number of cases in Category D} + \text{Number of cases in Category E}}$$